

109. The preparation of claim 108, wherein the herbal source is witch hazel.
110. An anti-inflammatory and anti-pruritic formulation comprising glucosamine in an emollient base, wherein the formation may be suitable for topical application on human skin, and further wherein the formulation at least partially suppresses, local to the area of topical application, the production of at least one cytokine that stimulates the proliferation of apoptosis-resistant keratinocytes.
111. The formulation of claim 110 wherein the formulation is used to treat insect bites on human skin.
112. The formulation of claim 110 wherein the at least one cytokine includes interleukin-2.
113. The formulation of claim 110 wherein the at least one cytokine includes interferon gamma.
114. The formulation of claim 110 wherein the at least one cytokine includes interleukin-2 and interferon-gamma.
115. The formulation of claim 110 wherein the at least one cytokine is suppressed due to at least suppression of a T-cell population that secretes the at least one cytokine.
116. The formulation of claim 110 further including at least one antioxidant from an herbal source.
117. The formulation of claim 116 wherein the herbal source is witch hazel.
118. An anti-inflammatory and anti-pruritic formulation suitable for topical application on mammalian skin, the formulation comprising glucosamine and extract from at least one herb, wherein the at least one herb extract elicits at least one of the following biological effects: antioxidant, antibacterial, antimicrobial, anti-platelet adhesion, vasodilation or keratolysis.
119. The formulation of claim 118, wherein the formulation is used to treat insect bites on human skin.
120. The formulation of claim 118, wherein the at least one herb extract includes olive leaf extract.
121. The formulation of claim 118, wherein the at least one herb extract includes Oregon grapeseed extract.
122. The formulation of claim 118, wherein the glucosamine and the at least one herb extract act synergistically on the skin to mitigate skin ailments.
123. The formulation of claim 118 wherein the at least one herb is witch hazel.